

PARAMETERS

PEAK FLOW 
LOW FLOW 

SYSTEM TYPE |
REGULATED 
GLACIAL 
MIXED RAIN/SNOW 

SUMMER MAXIMUM
WATER TEMPERATURE 

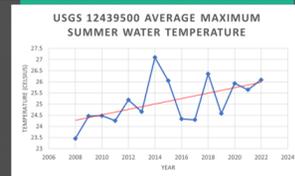
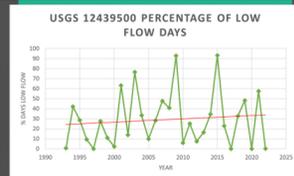
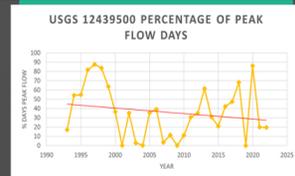
STATISTICS

DISCHARGE (PEAK FLOW)

DISCHARGE (LOW FLOW)

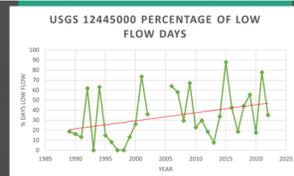
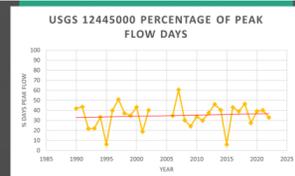
WATER TEMPERATURE

★ Okanogan River at Oroville, WA



1993 : Trendline Value - 44.6% } Difference = **-17.3%**
2022 : Trendline Value - 27.3%
1993 : Trendline Value - 24.3% } Difference = **+9.4%**
2022 : Trendline Value - 33.8%
2008 : Trendline Value - 75.9 °F } Difference =
2022 : Trendline Value - 78.9 °F **+3 °F**

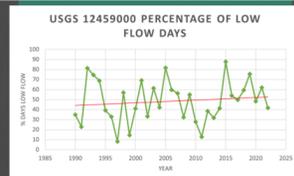
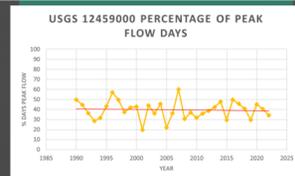
★ Okanogan River at Tonasket, WA



1990 : Trendline Value - 32.8% } Difference = **+3.8%**
2022 : Trendline Value - 36.6%
1989 : Trendline Value - 20.8% } Difference = **+26.4%**
2022 : Trendline Value - 47.2%

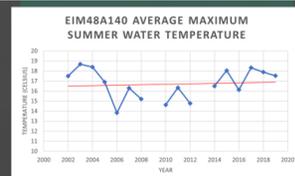
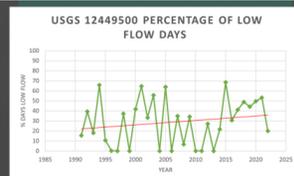
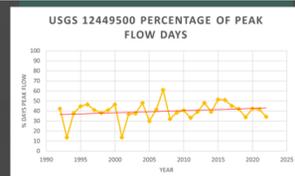
★ Columbia River at Bridgeport, WA

★ Wenatchee River at Peshastin, WA



1990 : Trendline Value - 40.4% } Difference = **-1.9%**
2022 : Trendline Value - 38.5%
1990 : Trendline Value - 44% } Difference = **+8.4%**
2022 : Trendline Value - 52.4%
1992 : Trendline Value - 36.6% } Difference = **+6.4%**
2022 : Trendline Value - 43%
1991 : Trendline Value - 22% } Difference = **+13.7%**
2022 : Trendline Value - 35.7%
2002 : Trendline Value - 61.6 °F } Difference =
2022 : Trendline Value - 62.3 °F **+0.7 °F**

★ Methow River at Twisp, WA



1992 : Trendline Value - 36.6% } Difference = **+6.4%**
2022 : Trendline Value - 43%
1991 : Trendline Value - 22% } Difference = **+13.7%**
2022 : Trendline Value - 35.7%
2002 : Trendline Value - 61.6 °F } Difference =
2022 : Trendline Value - 62.3 °F **+0.7 °F**

GAUGES

1949 Trendline Value (Freeze Elevation) : 3429 ft
2022 Trendline Value (Freeze Elevation) : 4293.5 ft
^ Difference = **+864.5 ft**

Between 1949 - 2022 the elevation of the freeze level (32°F) for the Upper Columbia region **increased** by an average of **21.7 ft** each year

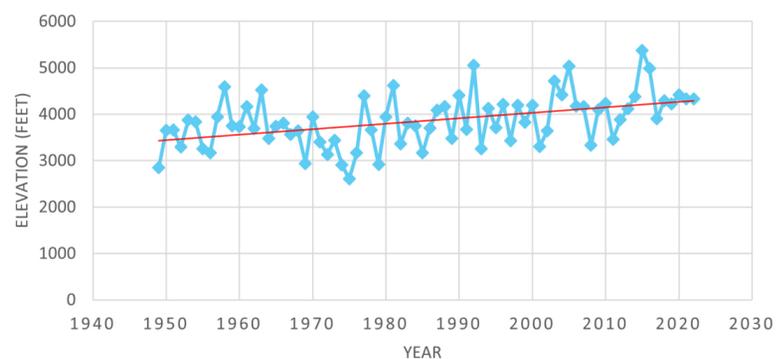
1949 Trendline Value (Precip. as Snow) : 64.2%
2022 Trendline Value (Precip. as Snow) : 49.1%
^ Difference = **-15.1%**

Between 1949 - 2022 the percentage of precipitation falling as snow in the Upper Columbia region **decreased** by an average of **-0.3%** each year

FREEZING ELEVATION

PRECIPITATION AS SNOW

UPPER COLUMBIA REGION AVERAGE ANNUAL FREEZING ELEVATION



UPPER COLUMBIA AVERAGE ANNUAL SNOW FALLING AS PRECIPITATION

